ENT COOPERATION TREAT

To:

From	tha	INTE	BNIV.	TION	AI B	UREAU
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PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Assistant Commissioner for Patents United States Patent and Trademark

Office Box PCT Washington, D.C.20231 ÉTATS-UNIS D'AMÉRIQUE

Date of mailing (day/month/year)

06 January 2000 (06.01.00)

in its capacity as elected Office

International application No. PCT/SE99/00605

Applicant's or agent's file reference 2998401

International filing date (day/month/year) 16 April 1999 (16.04.99) Priority date (day/month/year) 17 April 1998 (17.04.98)

Applicant

DANIELSON, Magnus et al

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	02 November 1999 (02.11.99)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Marie-José Devillard

Facsimile No.: (41-22) 740.14.35

Telephone No.: (41-22) 338.83.38

Copy for the Elected Office (EO/US) ENT COOPERATION TREAT

	From the INTERNATIONAL BUREAU			
PCT	То:			
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year) 06 January 2000 (06.01.00)	AWAPATENT AB P.O. Box 45086 S-104 30 Stockholm SUÈDE			
Applicant's or agent's file reference 2998401	IMPORTANT NOTIFICATION			
International application No. PCT/SE99/00605	International filing date (day/month/year) 16 April 1999 (16.04.99)			
The following indications appeared on record concerning: The following indications appeared on record concerning: The following indications appeared on record concerning: The following indications appeared on record concerning: The following indications appeared on record concerning: The following indications appeared on record concerning:	the agent the common representative			
Name and Address NET INSIGHT AB Ingenjörsvägen 3	State of Nationality State of Residence SE SE Telephone No.			
S-117 43 Stockholm Sweden	Facsimile No.			
	Teleprinter No.			
The International Bureau hereby notifies the applicant that the person the name X the additional that the person that the person the name X the additional that the person				
Name and Address	State of Nationality State of Residence SE SE			
NET INSIGHT AB Västberga Allé 9 S-126 30 Stockholm Sweden	Telephone No.			
	Facsimile No.			
	Teleprinter No.			
3. Further observations, if necessary:				
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Form PCT/IB/306 (March 1994)

003039644

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

REPORT JUL 2000

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACT		ication of Transmittal of International				
2998401	TORTORIDARE	Preliminary	Examination Report (Form PCT/IPEA/416)				
International application No.	International filing date	day/month/year)	Priority date (day/month/year)				
PCT/SE99/00605	16.04.1999		17.04.1998				
International Patent Classification (IPC) o	r national classification an	d IPC7					
н 04 ј 3/16, н 04 L 5	/22						
A 1:							
Applicant							
NET INSIGHT AB et al							
	· · · · · · · · · · · · · · · · · · ·						
This international preliminary exa Authority and is transmitted to the			national Preliminary Examining				
This REPORT consists of a total of a to	of 5 sheets,	including this cover	sheet.				
This report is also accompa	nied by ANNEXES i.e. s	heets of the description	on, claims and/or drawings which have				
been amended and are the b	pasis for this report and/or	sheets containing rec	tifications made before this Authority				
(see Rule 70.16 and Section	1 607 of the Administrative	: Instructions under the	ne PCT).				
These annexes consist of a total of	of sheets.						
3. This report contains indications re	clating to the following item	ns:					
I Basis of the report							
II Priority			İ				
III Non-establishment o	f opinion with regard to no	velty, inventive step	and industrial applicability				
IV Lack of unity of inve	ention						
	under Article 35(2) with reporting such statement	gard to novelty, inve	ntive step or industrial applicability; citations				
VI Certain documents of	ited						
VII Certain defects in the	international application						
VIII Certain observations	VIII Certain observations on the international application						
-							
Data of submission of the dament		Data of accordation	of this report				
Date of submission of the demand		Date of completion	or this report				
02.11.1999		28.06.2000					
Name and mailing address of the IPEA/SI	 E	Authorized officer					
Patent- och registreringsverket	Telex		İ				
Box 5055 S-102 42 STOCKHOLM	17978 PATOREG-S	Stig Edhbo	rg/EE				
Facsimile No. 08-667 72 88		Telephone No. 08-					

Form PCT/IPEA/409 (cover sheet) (January 1994)



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SE99/00605

I. Basis of the report		
1. This report has been drawn of under Article 14 are referred to in	in the basis of (Replacement sh this report as "originally filed	eets which have been furnished to the receiving Office in response to an invitation " and are not annexed to the report since they do not contain amendments.):
the international	application as originally file	ed.
the description,	pages	, as originally filed,
	-	_ , filed with the demand,
	pages	, filed with the letter of,
	pages	, filed with the letter of
the claims,	Nos.	, as originally filed,
	-	_ , as amended under Article 19,
	Nos.	_ , filed with the demand,
	Nos.	, filed with the letter of,
	Nos	_ , filed with the letter of
the drawings,	sheets/fig	, as originally filed,
	sheets/fig	
	sheets/fig	, filed with the letter of,
	sheets/fig	, filed with the letter of
2. The amendments have resulte the description, the claims,		_
<u> </u>	sheets/fig	-
the drawings,		_
This report has been end beyond the disclosureAdditional observations, if no	as filed, as indicated in the s	e amendments had not been made, since they have been considered to go supplemental Box (Rule 70.2(c)).
		·

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SE99/00605

٧.	Resoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1.	Statement			
	Novelty (N)	Claims	1-30	YES
		Claims		NO
	Inventive step (IS)	Claims	1-30	YES
		Claims		NO NO
	Industrial applicability (IA)	Claims	1-30	YES
		Claims		NO

2. Citations and explanations

The invention relates to a method and an apparatus for allocating time slots to circuit-switched channels established to comprise one or more respective time slots in a recurrent frame of a time division multiplexed network.

The object of the invention is to provide a flexible way of controlling the allocation and deallocation of time slots to channels, also taking into consideration the situation when there are no free slots available.

According to the invention, a time slot allocated to said channel is associated with a selected level, of at least two available levels, of priority. Decicsions as to whether or not to deallocate said time slot from said channel is then based upon a comparision of said selected level of priority and a level of priority associated with a request for a time slot for another channel.

The following documents are cited in the International Search Report:

D1: US 5532937 A

D2: US 5343474 A

D3: US 4494232 A

D4: WO 9736402 A1

D5: BOHM, C. et al., The DTM Gigabit Network, Journal of High Speed Networks 3 (1994), pages 109 to 126

D6: GAUFFIN L. et al., Multi-gigabit networking based on DTM, Computer Networks and ISDN Systems, 24(1992), April, No. 2, pages 119 to 130

.../...



International application No.

PCT/SE99/00605

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: · V

However, the documents D1-D6 do not disclose such a method or apparatus, but reveal only the general state of the art.

Therefore, the invention claimed in claims 1-30 is considered to be novel (N), to involve an inventive step (IS) and also to have industrial applicability (IA).

Form PCT/IPEA/409 (Supplemental Box) (January 1994)



International application No. PCT/SE99/00605

VIIL	Certain	observations	on	the international	application
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The following supported by the			ıs, desci	iption, and di	awings	or on the question wheth	er the claims an	e fully
		misspelling "deallocate"		claim	2,	"dellacate"	should	be

Form PCT/IPEA/409 (Box VIII) (January 1994)



PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶: H04J 3/16, H04L 5/22

A3

(11) International Publication Number:

WO 99/55036

(43) International Publication Date:

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PCT/SE99/00605

(22) International Filing Date:

16 April 1999 (16.04.99)

(30) Priority Data:

9801335-2

17 April 1998 (17.04.98)

SE

(71) Applicant (for all designated States except US): NET INSIGHT AB [SE/SE]; Ingenjörsvägen 3, S-117 43 Stockholm (SE).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): DANIELSON, Magnus [SE/SE]; Kyrkvägen 3 A, S-182 74 Stocksund (SE). LIND-GREN, Per [SE/SE]; Maria Prästgårdsgatan 12, S-118 52 Stockholm (SE). WAHLUND, Thomas [SE/SE]; Hammerstavägen 134, S-122 60 Enskede (SE).
- (74) Agent: AWAPATENT AB; P.O. Box 45086, S-104 30 Stockholm (SE).

(81) Designated States: AE, AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), EE, EE (Utility model), ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

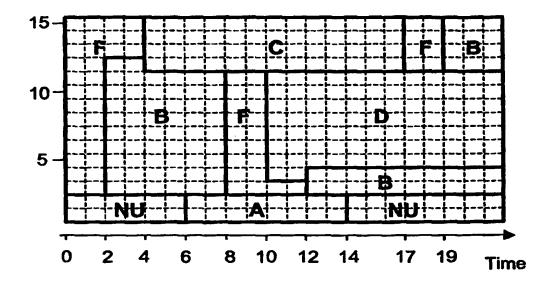
With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(88) Date of publication of the international search report:

20 January 2000 (20.01.00)

(54) Title: METHODS AND APPARATUSES FOR ALLOCATING TIME SLOTS TO CIRCUIT-SWITCHED CHANNELS



(57) Abstract

The present invention relates to methods and apparatuses for allocating time slots to circuit-switched channels established to comprise one or more respective time slots in a recurrent frame of a time division multiplexed network. According to the invention, a time slot allocated to said channel is associated with a selected level, of at least two available levels of priority. Decisions as to whether or not to deallocate said time slot from said channel is then based upon a comparison of said selected level of priority and a level of priority associated with a request for a time slot for another channel.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 99/00605

A. CLASSIFICATION OF SUBJECT MATTER

IPC6: H04J 3/16, H04L 5/22 According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC6: H04J, H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5343474 A (KEVIN R. DRISCOLL), 30 August 1994 (30.08.94), column 3, line 44 - column 4, line 26	1-30
		
A	US 5532937 A (MICHAEL J. GRAZIANO ET AL), 2 July 1996 (02.07.96), see the whole document	1-30
		
A	US 4494232 A (WILLIAM A. DAMBRACKAS ET AL), 15 January 1985 (15.01.85), column 2, line 11 - line 41, claim 1	1-30
		
A	WO 9736402 A1 (NET INSIGHT AB), 2 October 1997 (02.10.97), see the whole document	1-30

*	Special categories of cited documents: "document defining the general state of the art which is not considered to be of particular relevance."		" later document published after the international filing date or priorit		
"Λ"			date and not in conflict with the application but cited to understand the principle or theory underlying the invention		
"E"	erlier document but published on or after the international filing date	"X"	document of particular relevance: the claimed invention cannot be		
"1."	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other		considered novel or cannot be considered to involve an inventive step when the document is taken alone		
1	special reason (as specified)	"Y"	document of particular relevance: the claimed invention cannot be		
O	means of document published prior to the international filing date but later than		considered to involve an inventive step when the document is combined with one or more other such documents, such combinate		
"P"			heing obvious to a person skilled in the art		
	the priority date claimed	"&"	document member of the same patent family		
Dat	e of the actual completion of the international search	Date	of mailing of the international search report		
	!		3 0 -11- 1999		
29	November 1999		2 0 -(1- 1333		
Name and mailing address of the ISA/		Authorized officer			
1	edish Patent Office	1			
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i i	simile No. + 46 8 666 02 86	Telephone No. + 46 8 782 25 00			
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χ See patent family annex.

Form PCT/ISA/210 (second sheet) (July 1992)

Y Further documents are listed in the continuation of Box C.



INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 99/00605

		PC1/3E 99/0	0003
C (Continu	ation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	- Citation of document, with indication, where appropriate, of the relev	Relevant to claim No.	
A	BOHM, C. et al., The DTM Gigabit Network Journ High Speed Networks 3 (1994), pages 109 to	1-30	
A	GAUFFIN L. et al., Multi-gigabit networking ba on DTM, Computer Networks and ISDN System April, No. 2, pages 119 to 130	ased s 24(1992)	1-30
!			

INTERNATIONAL SEARCH REPORT Information on patent family members

International application No.

02/11/99

PCT/SE 99/00605

Patent document cited in search report		Publication date				Publication date	
US	5343474	A	30/08/94	DE JP WO	69418459 0692168 8508860 9423516	A,B T	00/00/00 17/01/96 17/09/96 13/10/94
US	5532937	Α	02/07/96	NONE			
US	4494232	Α	15/01/85	NONE			
WO	9736402	A1	02/10/97	AU EP EP SE	2314797 0850429 0886934 9601130	A A	17/10/97 01/07/98 30/12/98 00/00/00